

FIG. 1

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS

# QUEUE FILL LOGIC

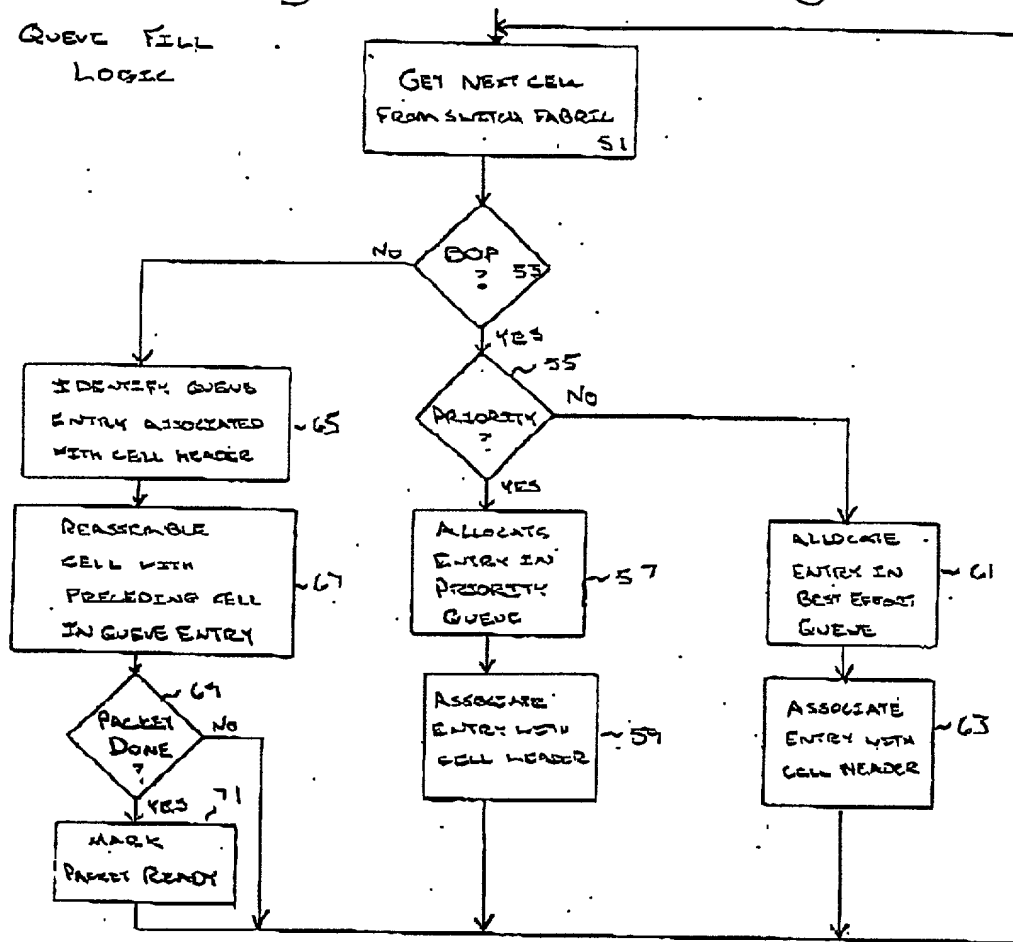


FIG. 2A

# QUEUE DRAIN LOGIC

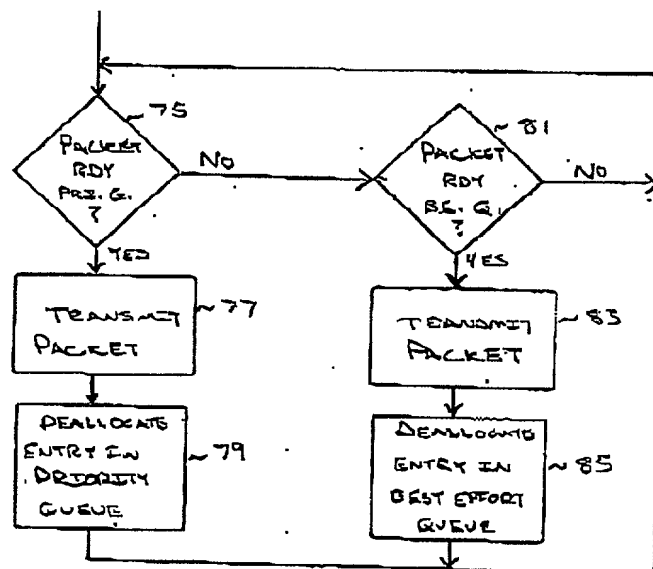


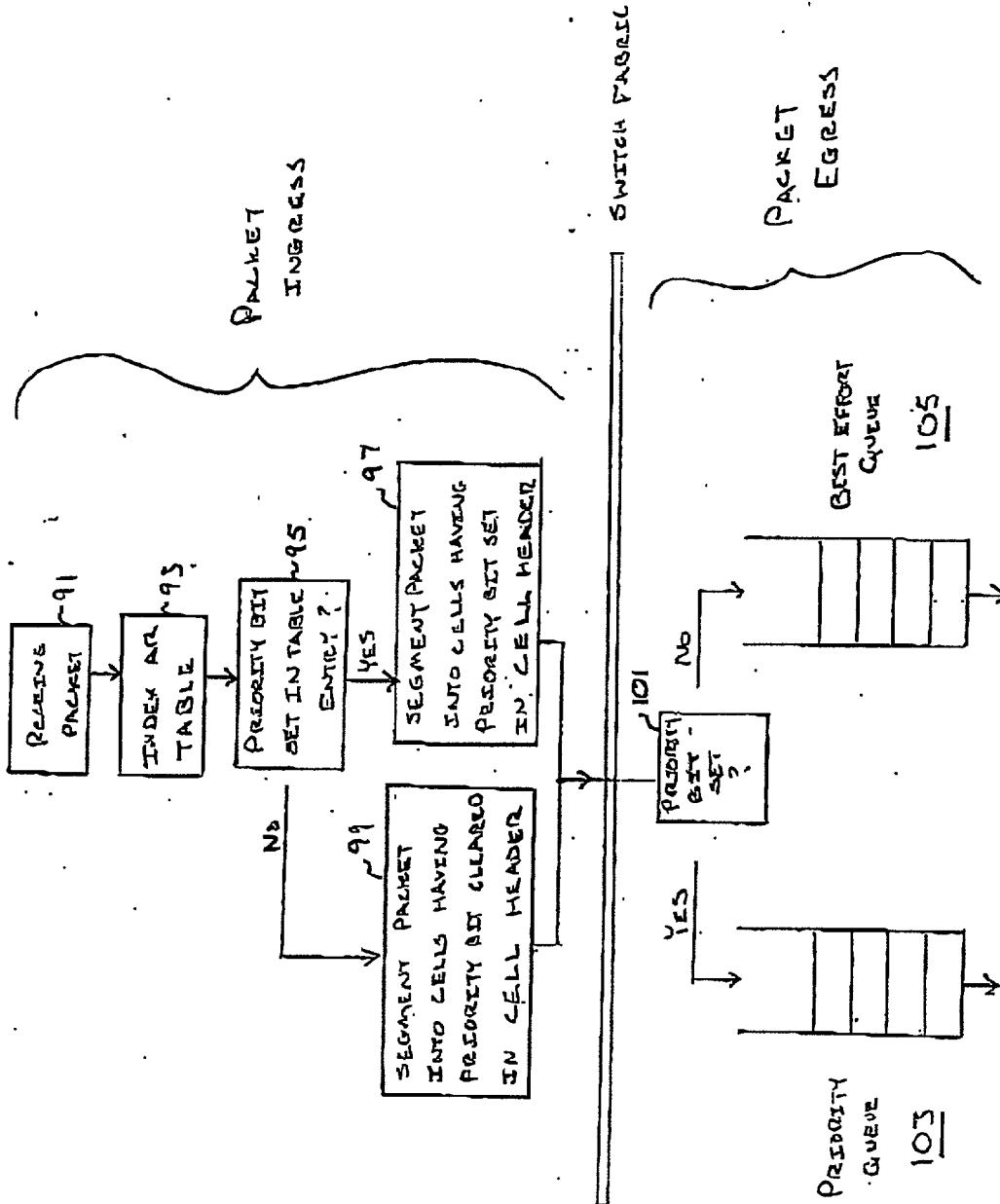
FIG. 2B



22-149 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



FIG. 3



22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



If it is found that the information is not in the table, it is then determined if it is in the table. If it is in the table, it is then determined if it is in the table. If it is in the table, it is then determined if it is in the table.

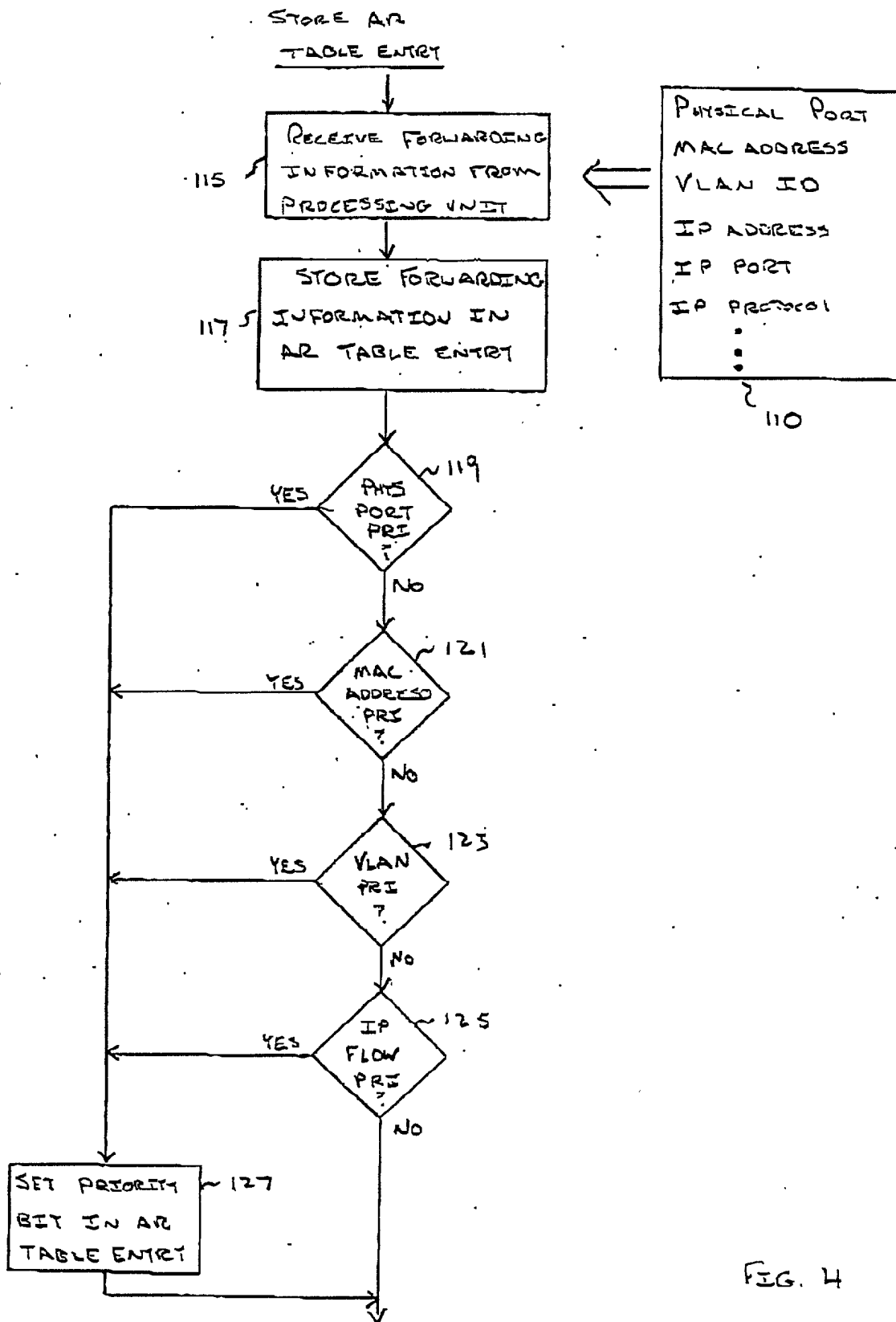


FIG. 4

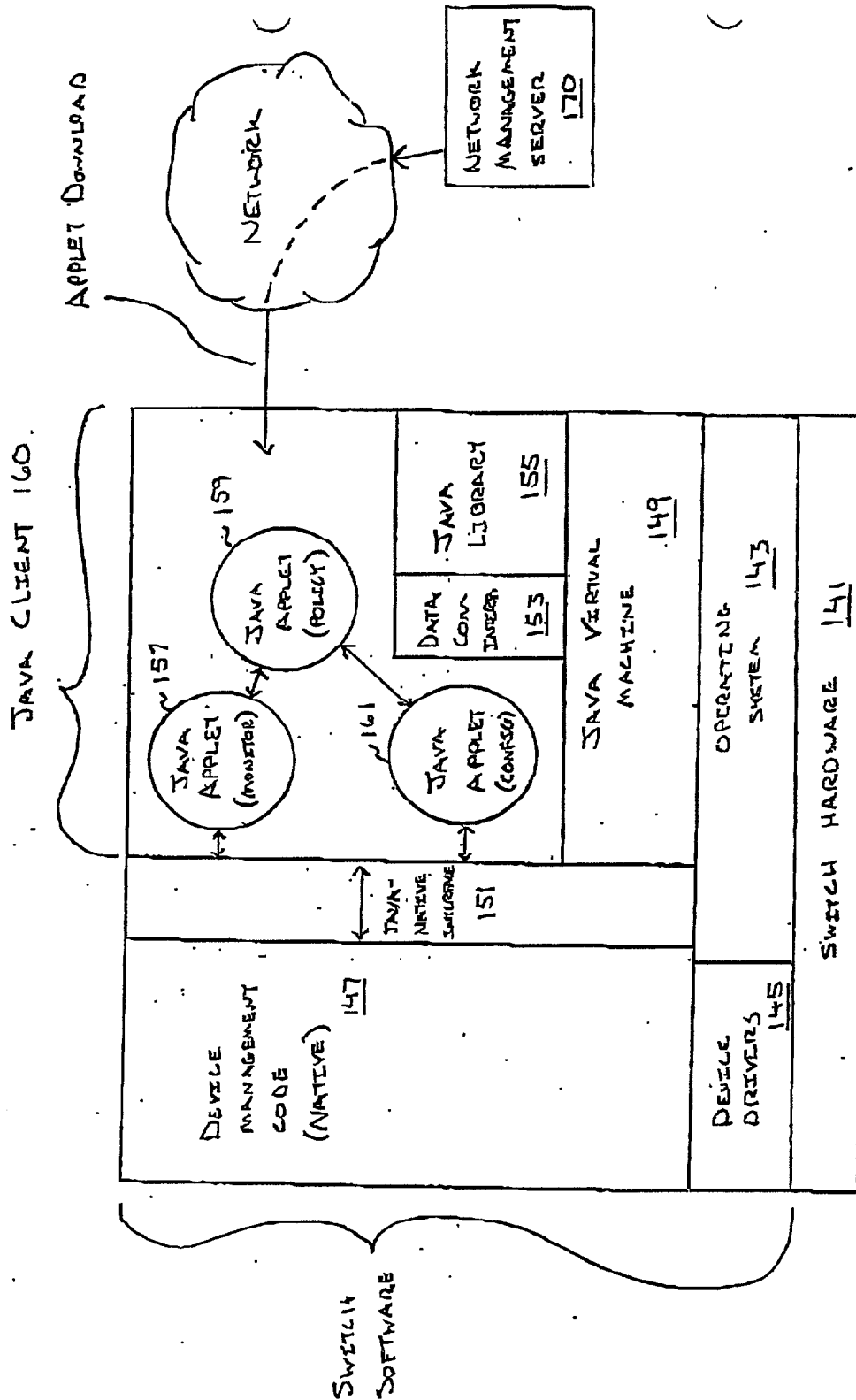


FIG. 5

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22.141 50 SHEETS  
22.142 100 SHEETS  
22.144 200 SHEETS

22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



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MONITOR:  
FOREVER  
(  
READ\_DEST\_MAC\_UTIL% (PORT1, MAC\_ADDR A)  
READ\_DEST\_MAC\_UTIL% (PORT1, MAC\_ADDR B)  
DELAY 10MS  
)

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POLICY ENFORCEMENT:  
A%: LINE UTILIZATION % MAC\_ADDR A  
B%: LINE UTILIZATION % MAC\_ADDR B  
QA\_S: QUEUE ASSIGNMENT OF SERVER MAC\_ADDR A TRAFFIC  
QA\_A: QUEUE ASSIGNMENT OF MAC\_ADDR A TRAFFIC  
QA\_B: QUEUE ASSIGNMENT OF MAC\_ADDR B TRAFFIC  
DELTA = 5%  
QA\_S = QA\_A = QA\_B = PRI.Q  
FOREVER  
(  
GET A%, B% FROM MONITOR  
181 IF (QA\_A == PRI.Q AND QA\_B == PRI.Q) AND  
((A%+B%) > 80%)  
QA\_A = B.E.Q  
183 IF (QA\_A == B.E.Q AND QA\_B == PRI.Q) AND  
((A%+B%) < (80% - DELTA))  
QA\_A = PRI.Q  
185 IF (QA\_A == B.E.Q AND QA\_B == PRI.Q) AND  
(B% > 80%)  
QA\_B = B.E.Q  
187 IF (QA\_B == B.E.Q) AND  
(B% < (80% - DELTA))  
QA\_B = PRI.Q  
DELAY 5MS  
)

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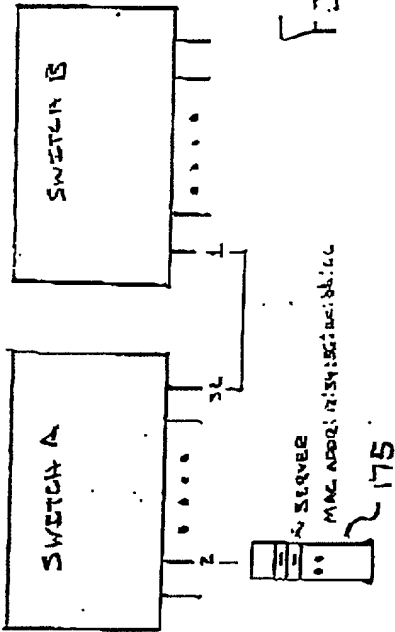


FIG. 6

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## CONFIGURATION:

QA\_A: QUEUE ASSIGNMENT OF MAC\_ADDR A TRAFFIC  
QA\_B: QUEUE ASSIGNMENT OF MAC\_ADDR B TRAFFIC  
LAST\_QA\_A: QA\_A HISTORY  
LAST\_QA\_B: QA\_B HISTORY  
LAST\_QA\_A = LAST\_QA\_B = PRI.Q  
FOREVER  
(  
GET QA\_A, QA\_B FROM POLICY ENFORCEMENT  
IF (QA\_A != LAST\_QA\_A)  
(  
MOVE\_VIRTUAL\_QUEUE (PORT1, MAC\_ADDR A, QA\_A)  
LAST\_QA\_A = QA\_A  
)  
IF (QA\_A != LAST\_QA\_A)  
(  
MOVE\_VIRTUAL\_QUEUE (PORT1, MAC\_ADDR A, QA\_A)  
LAST\_QA\_A = QA\_A  
)  
DELAY 2.5MS  
)

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